

SIMPLEX PACKER RETRIEVERS

Instruction Manual 2710



Simplex Packer Retrievers

One Company Unlimited Solutions



NATIONAL OILWELL VARCO

Simplex Packer Retrievers

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The designs and specifications for the tools described in this instruction manual were in effect at the time this manual was approved for printing. National Oilwell Varco, whose policy is one of continuous improvement, reserves the right to discontinue models at any time, or to change designs and specifications without notice or without incurring obligation.

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General Description

The **Bowen Simplex Packer Retriever** is an internally engaging fishing tool especially designed for the retrieving of “drillable” type production packers. With its accessory components (Stinger, Bushing and Mill Shoe), the Bowen Simplex Packer Retriever passes through the bore of the packer, prevents loss of the packer during milling and pulls the packer after it has been milled over, all in one trip. If necessary, the Bowen Simplex Packer Retriever can be released and reset to catching position — all without coming out of the hole.

Use

The Bowen Simplex Packer Retriever is used to retrieve all types of “drillable” production packers from the well bore. Types and sizes of production packers recoverable with Bowen Simplex Packer Retrievers are listed in the Range Charts on the following pages.

Construction

The Bowen Simplex Packer Retriever consists of a Top Sub, Lock Pin, Cage, Mandrel and Bottom Nut. The Top Sub connects the Retriever to a Stinger or extension. The Cage is installed on the Mandrel which is threaded into the Top Sub and secured at assembly with the Lock Pin. The Bottom Nut is a bullnose type and is furnished with the tool unless an alternate is specified. It may be removed so that a tool or other type nut may be run below the Retriever if required.

The Cage has two automatic “J” slots with internal lug keyways, friction wickers, lifting shoulder, and a tapered I.D. at the bottom with milled slots so that the lifting shoulder can expand. The Mandrel has two “J” slot lugs and a tapered cone which makes the Cage lifting shoulder expand.

The Retriever also has a small bore for high velocity jetting in case the packer has been sanded over.

Accessories

Stinger

Bowen Simplex Packer Retriever Stingers are simply extensions that permit the Retriever to be lowered completely through the packer during the milling operation.

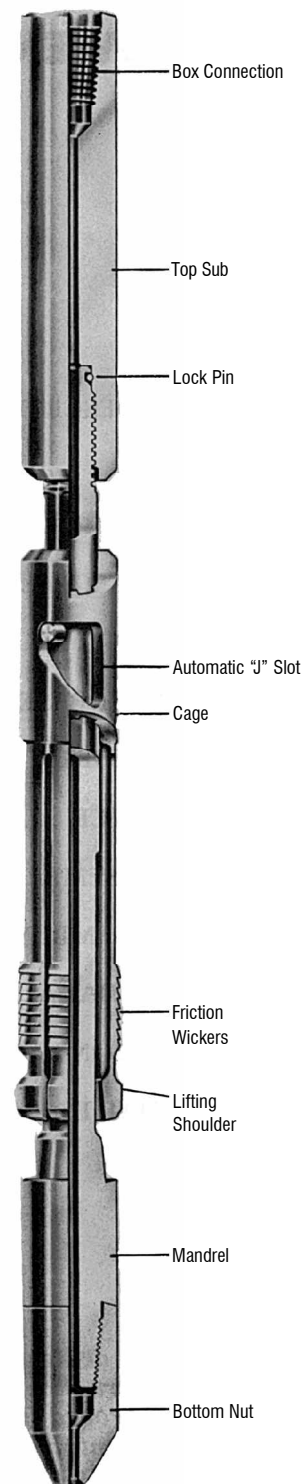
Bushing

The Bushing is provided with a box connection at its lower end for attaching the Stinger, also a pin connection at the lower end for attaching a Mill Shoe and a box connection at its upper end for connection to the run-in or fishing string. Bushings are provided with circulation ports that may direct some fluid down around the outside of the Retriever.

Mill Shoes

Mill Shoes for **Bowen Simplex Packer Retrievers** are of sufficient length to completely mill away the slips of the packer and contain the packer within its length. The Mill Shoe is faced with Bowen Itcoloy (sintered tungsten carbide) on its leading edge and on its internal diameter. The lower outside diameter may be dressed with hard-facing material to reduce wear. Mill Shoes are made with additional length to permit redressing with Bowen Itcoloy several times. The Mill Shoe must be of a length which will shroud the packer.

When more length is needed, a Short Mill Shoe may be used with a piece of washpipe, of sufficient length, in place of the long Mill Shoe. (See assembly illustrated here.)



Bowen Simplex Packer Retriever

Operation

Make up a complete Bowen Simplex Packer Retriever Assembly consisting of Retriever, Stinger, Bushing and Mill Shoe. Make sure to determine the following:

1. That the Retriever is the correct size for the packer to be caught.
2. That the Stinger is sufficiently long to permit the Retriever to pass completely through the packer.
3. That the Bushing and Mill Shoe are the correct size for the casing specifications.

Refer to the Specification Tables and Range Charts on the following pages.

Make up complete assembly to the fishing string.

Lower the Retriever into the hole on the fishing string and pass it through the packer. As the Retriever passes through the packer, the Cage is free to ride up on the Mandrel while the lugs are in the bottom of its internal keyways, and the friction wickers and lifting shoulder are free to collapse to permit passage. After the friction wickers pass through, the Cage will fall onto the tapered cone of the Mandrel which expands the lifting shoulder. The Mandrel lugs are then near the top of the internal keyways. Now, raise the fishing string slowly and carefully until it takes weight. This insures that the Retriever will engage the packer seat.

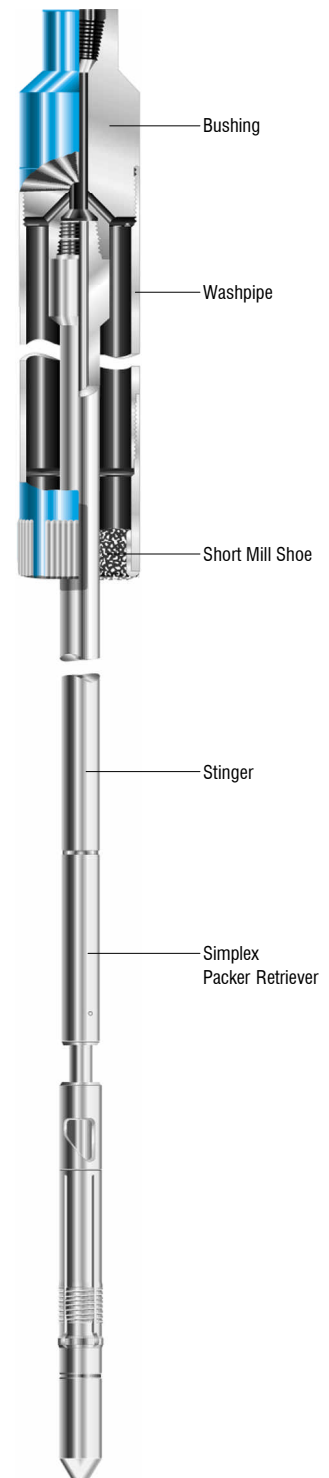
Lower the fishing string until the Mill Shoe contacts the slips of the packer. Start circulation and right-hand rotation to mill away the slips and sealing element of the packer. When the packer begins to slide down the hole, stop rotation, raise the fishing string to engage it with the lifting shoulder and then pull the assembly and the fish from the hole. See procedure steps figure on page 6.

To Release the Retriever

If, for any reason, it is desirable to release the Retriever from the packer, observe the following procedure.

1. Elevate the fishing string until weight is indicated.
2. Lower the fishing string about three inches.
3. Rotate about 90° to the right.
4. Slowly elevate the string to withdraw the Retriever from the packer.

When the fishing string is lowered three inches, the friction wickers drag on the packer I.D. causing the Mandrel lugs to ride down the keyways into the "J" slots. As this occurs, the Cage slides off the Mandrel tapered cone. The friction wickers remain in the packer and still provide slight drag enough to hold the Cage stationary while the 90° right-hand turn is applied which moves the lugs out of the keyways and into the "J" slots. When the String is raised, the lugs engage the top of the "J" slots leaving the lifting shoulder free to collapse and be removed from the packer.



**Complete Retrieving Unit
with Bushing, Shoe, and Stinger**

To Reset the Retriever in the Hole

After releasing from the packer and it is desirable to reset the Retriever, observe the following procedure. Refer to fourth view of procedure figure on page 6.

1. Lower the fishing string until the Retriever passes through the packer bore. As it passes through, the drag of the friction wickers on the packer bore makes the lugs ride on the bottom of the "J" slots and back into the keyways. Once through, the Cage falls back onto the tapered cone of the Mandrel which again expands the lifting shoulder.
2. Elevate the fishing string until weight is indicated demonstrating that the Retriever is in the catch position and is engaging the packer seat.
3. Continue elevating and pull the assembly and fish from the hole.

Maintenance

To guard against misruns and to prolong the life of the Bowen Simplex Packer Retriever, it should be completely disassembled, thoroughly cleaned, lubricated and reassembled before storing. Exterior surfaces may be either painted or lubricated to prevent rust and deterioration.

Disassembly of Simplex Packer Retriever

1. Rest Top Sub in vise or clamp so that Lock Pin is in position where it can be driven out. Drive Lock Pin out. This pin must be removed first.
2. Reposition assembly in vise to clamp on Mandrel just above Bottom Nut. Rest top end of Mandrel (between the Cage and Top Sub) on padded support so that assembly will not flex when applying torque to Top Sub. Using wrench, break out and remove Top Sub.
3. Remove Cage by manually aligning Mandrel lugs with the internal Cage keyways and slide Cage off threaded end of Mandrel.
4. Using wrench, remove Bottom Nut to make sure there is no debris inside which could obstruct the bore.

Bowen Simplex Retriever Strength Data

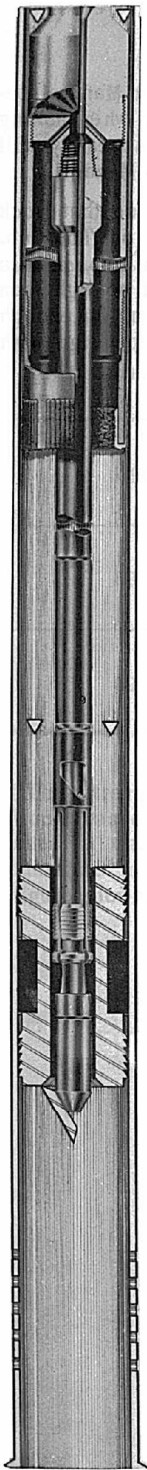
Retriever Assembly No.	Tensile Strength* (lbs)
74770	43,000
69035	115,000
69040	153,000
69045	216,000
69050	392,000
69055	544,000

* The strengths shown are theoretical calculations based on yield strength of the material used in each case. The strengths shown are only plus or minus 20% accurate of the figure shown.

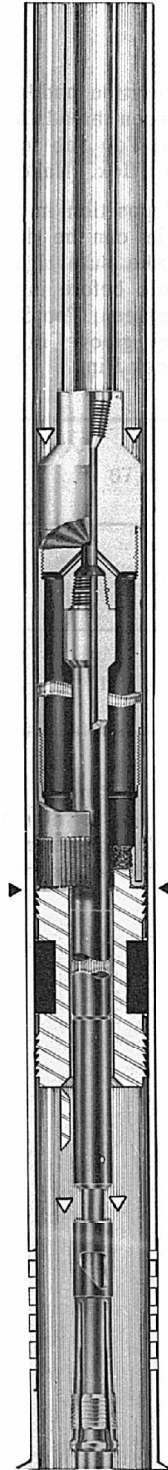
These figures do not constitute a guarantee, actual or implied. They are meant to serve as a guide only, and appropriate allowance must be made in use, as a safety factor.

Reassembly of Simplex Packer Retriever

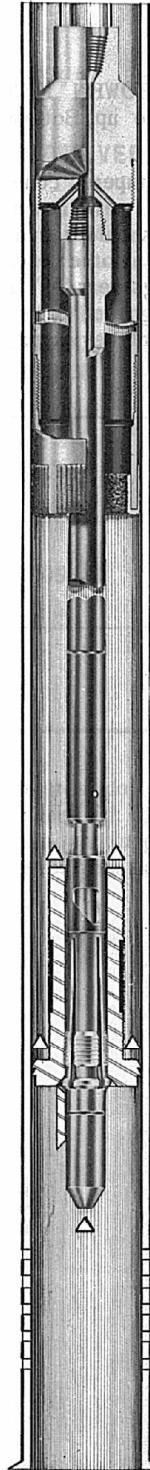
1. Clamp Mandrel's largest diameter in vise and coat all threads with thread dope, tool joint compound or Bowen Itcolube. Using wrench, make up Bottom Nut to threads near vise.
2. Coat Mandrel between tapered cone and lug area and I.D. of Cage generously with grease. Slip lifting shoulder and friction wicker end of Cage onto other end of Mandrel. When Mandrel lugs near "J" slot area of Cage, manually align and enter Mandrel lugs into Cage internal keyways.
3. Position padded support under Mandrel between threads and Cage so that when making up Top Sub to Mandrel, the assembly will not flex. Make up Top Sub to Mandrel.
4. Reposition in vise and clamp so that Lock Pin can be driven into hole on Top Sub. Make sure light can be seen through this hole before installing Pin. If no light can be seen, Top Sub is not made up far enough for groove in Mandrel end to align with Lock Pin.



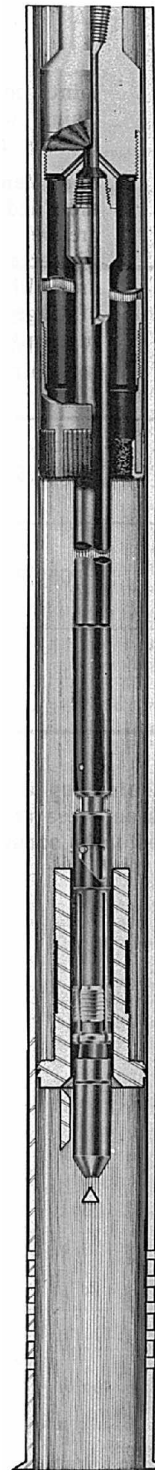
Pass Through
Packer



Mill Away Slips
and Sealing Element



Engage and
Pull Packer



Lower and Rotate
to Release

Bowen Simplex Retriever Specifications

Catch Size Packer I.D.	1.500	1.968	—	—	—	—	—	—	—	—	2.375	—	—	—	—
Extra Part to Catch	—	—	2.000	2.188	2.262	2.312	2.375	2.390	2.468	2.500	—	2.390	2.437	2.468	2.500
Outside Diameter	1-7/16	1-13/16	—	—	—	—	—	—	—	—	2-1/4	—	—	—	—
Inside Diameter	1/4	1/4	—	—	—	—	—	—	—	—	3/8	—	—	—	—
Box Connection	1-13/16	1-13/16	—	—	—	—	—	—	—	—	1-13/16	—	—	—	—
	Wilson	Wilson	—	—	—	—	—	—	—	—	Wilson	—	—	—	—
	F.J.	F.J.	—	—	—	—	—	—	—	—	F.J.	—	—	—	—
Complete Assembly	Part No.	74770	69035	—	—	—	—	—	—	—	69040	—	—	—	—
	Weight	18	14	—	—	—	—	—	—	—	20	—	—	—	—

Replacement Parts

Lock Pin	Part No.	150952	15143	—	—	—	—	—	—	—	A14152	—	—	—	—
	Weight	1/16	1/16	—	—	—	—	—	—	—	1/16	—	—	—	—
Top Sub	Part No.	150953	69036	—	—	—	—	—	—	—	69041	—	—	—	—
	Weight	10	4	—	—	—	—	—	—	—	6	—	—	—	—
Mandrel	Part No.	150954	69037	—	—	—	—	—	—	—	69042	—	—	—	—
	Weight	6	7	—	—	—	—	—	—	—	10	—	—	—	—
Cage	Part No.	150955	69038	69693	69694	69695	69696	69697	69698	69699	69700	69043	69701	79079	69702 69703
	Weight	1	1	1	1	1-1/8	1-1/8	1-1/8	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2 1-1/2
Bottom Nut	Part No.	150956	69039	—	—	—	—	—	—	—	—	69044	—	—	—
	Weight	1-1/2	1-1/2	—	—	—	—	—	—	—	—	2	—	—	—
Set Screw	Part No.	—	17762	—	—	—	—	—	—	—	—	17762	—	—	—
	Weight	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Bowen Simplex Specifications

Catch Size Packer I.D.	—	—	—	—	—	—	—	—	2.688	—	—	—	—	—	—
Extra Part to Catch	2.550	2.635	2.688	2.750	2.812	2.866	3.000	—	2.750	2.812	2.875	3.000	3.062	3.109	—
Outside Diameter	—	—	—	—	—	—	—	—	2-9/16	—	—	—	—	—	—
Inside Diameter	—	—	—	—	—	—	—	—	1/2	—	—	—	—	—	—
Box Connection	—	—	—	—	—	—	—	—	2-3/8	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	Wilson	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	F.J.	—	—	—	—	—	—
Complete Assembly	Part No.	—	—	—	—	—	—	—	69045	—	—	—	—	—	—
	Weight	—	—	—	—	—	—	—	23	—	—	—	—	—	—

Replacement Parts

Lock Pin	Part No.	—	—	—	—	—	—	—	2702	—	—	—	—	—	—
	Weight	—	—	—	—	—	—	—	1/16	—	—	—	—	—	—
Top Sub	Part No.	—	—	—	—	—	—	—	69046	—	—	—	—	—	—
	Weight	—	—	—	—	—	—	—	6-1/2	—	—	—	—	—	—
Mandrel	Part No.	—	—	—	—	—	—	—	69047	—	—	—	—	—	—
	Weight	—	—	—	—	—	—	—	12	—	—	—	—	—	—
Cage	Part No.	69079	69704	69705	69706	69707	78349	69708	69048	69080	69709	70770	69081	69710	69711
	Weight	1-5/8	1-5/8	1-5/8	1-3/4	1-3/4	1-3/4	1-3/4	2	2	2	2-1/8	2-1/8	2-1/8	2-1/8
Bottom Nut	Part No.	—	—	—	—	—	—	—	69049	—	—	—	—	—	—
	Weight	—	—	—	—	—	—	—	2-1/2	—	—	—	—	—	—
Set Screw	Part No.	—	—	—	—	—	—	—	23342	—	—	—	—	—	—
	Weight	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Bowen Simplex Packer Retriever Specifications

Catch Size Packer I.D.	—	—	3.250	—	—	—	—	—	3.875	—	—	—	—	—	—	—	—
Extra Part to Catch	3.250	3.500	—	3.500	3.688	3.810	3.875	4.000	—	4.000	4.187	4.250	4.400	4.500	4.560	4.750	5.000
Inside Diameter	—	—	5/8	—	—	—	—	—	3/4	—	—	—	—	—	—	—	—
Box Connection	—	—	2-3/8	—	—	—	—	—	2-7/8	—	—	—	—	—	—	—	—
	—	—	Reg.	—	—	—	—	—	Reg.	—	—	—	—	—	—	—	—
Complete Assembly Part No.	—	—	69050	—	—	—	—	—	69055	—	—	—	—	—	—	—	—
Weight	—	—	28	—	—	—	—	—	35	—	—	—	—	—	—	—	—

Replacement Parts

Lock Pin	Part No.	—	—	13430	—	—	—	—	—	25243	—	—	—	—	—	—	—	—
	Weight	—	—	1/8	—	—	—	—	—	1/8	—	—	—	—	—	—	—	—
Top Sub	Part No.	—	—	69051	—	—	—	—	—	69056	—	—	—	—	—	—	—	—
	Weight	—	—	8	—	—	—	—	—	10	—	—	—	—	—	—	—	—
Mandrel	Part No.	—	—	69052	—	—	—	—	—	69057	—	—	—	—	—	—	—	—
	Weight	—	—	14	—	—	—	—	—	15	—	—	—	—	—	—	—	—
Cage	Part No.	69712	69713	69053	72205	147573	69714	69715	69082	69058	69716	69718	73687	69717	73688	147572	69719	69083
	Weight	2-1/4	2-1/4	3	3	3	3	3-1/8	3-1/8	5-1/2	5-1/2	5-1/2	5-1/2	5-5/8	5-5/8	5-5/8	5-5/8	5-5/8
Bottom Nut	Part No.	—	—	69054	—	—	—	—	—	69059	—	—	—	—	—	—	—	—
	Weight	—	—	3	—	—	—	—	—	4	—	—	—	—	—	—	—	—
Set Screw	Part No.	—	—	23360	—	—	—	—	—	17762	—	—	—	—	—	—	—	—
	Weight	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

How to Order

Specify:

- (1) Name and number of assembly or part
- (2) Make, model, and ID of packer to be caught

RECOMMENDED SPARE PARTS:

- (1) 1 Cage, each catch size

Stingers

To Fit Packer Retriever No.		69035	69040	69045	69050	69055	—
Top Connection		2-3/8	2-3/8	2-3/8	2-3/8	2-7/8	3-1/2
		API	API	API	API	API	API
		Reg. Pin	Reg. Pin	Reg. Pin	Reg. Pin	Reg. Pin	Reg. Pin
Bottom Connection		1-13/16	1-13/16	2-3/8	2-3/8	2-7/8	3-1/2
		Wilson	Wilson	Wilson	API	API	API
		F.J. Pin	F.J. Pin	F.J. Pin	Reg. Pin	Reg. Pin	Reg. Pin
Stinger (120 inches)	Part No.	18053	18058	18063	18088	18073	18078
	Weight	75	105	115	150	180	205

Long Mill Shoes and Bushings

Casing Range		4-1/2	5	5-1/2	5-1/2	6	6-5/8	7	8-5/8	9-5/8
		12.6 to	21.0 to	20.0 to	13.0 to	14.0 to	20.0 to	17 lb.	40.0 to	40.0 to
		11.6 lbs	13.0 lbs	17.0 lbs	14.0 lbs	15.0 lbs	17.0 lbs	—	36.0 lbs	53.5 lbs
Casing Range		4-3/4	5-1/2	5-3/4	5-3/4	6-5/8	7	7-5/8	9	—
		16.0 lbs	25.0 lbs	25.2 lbs	19.5 to	32.0 to	32.0 to	24-39 lbs	40.0 to	—
		—	—	—	17.0 lbs	29.0 lbs	24.0 lbs	—	55.0 lbs	—
		—	—	—	6	7	7-5/8	—	—	—
		—	—	—	23.0 to	40.0 lbs	45.0 lbs	—	—	—
		—	—	—	20.0 lbs	—	—	—	—	—
Shoe	Part No.	18052	18057	18062	18064	18069	18067	18024	18072	18077
(60-inch long single piece)	Weight	45	55	70	87	97	107	117	137	160
Bushings	Part No.	18051	28199	18061	18061	28200	28201	28202	28203	18076
	Weight	29	35	45	45	64	69	80	95	105

NOTE: When retrieving a 3.250" packer from 9-5/8" casing, Part No. 18079 Crossover Sub is required between a Part No. 18088 Stringer and a Part No. 28204 Bushing.

Short Mill Shoes, Washpipes, and Bushings

Casing Range		3-1/2	4-1/2	5	5-1/2	6	6-5/8	7	8-5/8	9-5/8
		7.7 to	9.5 to	11.5 to	13 to	14 to	17 to	17 lbs	24 to	40 to
		10.2 lbs	16.6 lbs	18 lbs	23 lbs	15 lbs	24 lbs	—	49 lbs	53.5 lbs
Casing Range		—	4-3/4	5-1/2	5-3/4	6-5/8	7	7-5/8	9	—
		—	16 to 18 lbs	25 lbs	14 to 25 lbs	26 to 34 lbs	20 to 38 lbs	24 to 39 lbs	40 to 55 lbs	—
		—	—	—	6	7	7-5/8	—	—	—
Casing Range		—	5	—	6	7	7-5/8	—	—	—
		—	24 lbs	—	16 to 23 lbs	40 lbs	45 lbs	—	—	—
		—	—	—	—	—	—	—	—	—
Mill Shoe	Part No.	44422	25746	25748	25750	25752	25754	25756	25758	25760
	Weight	7	10	15	18	20	30	35	40	50
Washpipe (57-inches long)	Part No.	44423	25745	25747	25749	25751	25753	25755	25757	25759
	Weight	25	35	50	75	80	85	120	130	155
Bushings	Part No.	44424	18051	28199	18061	28200	28201	28202	28203	28204
	Weight	20	29	35	45	64	69	80	95	110

How To Order

Specify

- (1) Name and number of assembly or part
- (2) Casing size (OD and weight)
- (3) Top connection of bushing
- (4) Make, model, and number of packer to be caught

Prices quoted on request.

Bowen Simplex Packer Retriever Assembly Part No. 69035

Dressed with Cage Part No. 69038 — Standard Catch Size 1.968 Inches ID

Dressed with Cage Part No. 69038 will catch the following Baker Packers with 1.968 inch ID

Packer Type	Packer No.	Casing Size	Casing Weight (lbs)
D	22-19	4-1/2	12.6 – 16.6
DA	24DA-25	4-1/2	9.5 – 11.6
DA	23DA-25	4-3/4	16 – 18
D	24-19	4-1/2	9.5 – 11.6
		4-3/4	16 – 18
DA	25DA	5	21
D	25-19	5	21
DA	27DA-25	5	15 – 18
D	27-19	5	15 – 18
DA	29DA-25	5	11.5 – 13
		5-1/2	25
D	29-19	5	11.5 – 13
		5-1/2	25
D	43-19	5-1/2	20 – 23
D	45-19	5-1/2	15 – 17
		5-3/4	25.2
D	47-19	5-1/2	13 – 14
		5-3/4	19.5 – 22.5
D	49-19	5-3/4	14 – 17
		6	23 – 26

Dressed with Cage Part No. 69695 will catch the following Guiberson Packers with 2.262 inch ID

Packer Type	Packer No.	Casing Size	Casing Weight (lbs)
B and BL	27618	5	15 – 18

Dressed with Cage Part No. 69693 will catch the following Halliburton Packers with 2.000 inch ID

Packer Type	Packer No.	Casing Size	Casing Weight (lbs)
C	801.848	4-1/2	9.5 – 11.6
		4-3/4	16
		4 LP	11
CL	801.901	4-1/2	9.5 – 11.6
		4-3/4	16
		4 LP	11
C	801.849	4-1/2	13.5
		4-1/2 DP	16.6
CL	801.902	4-1/2	13.5
		4-1/2 DP	16.6
C	801.853	5	11.5 – 15
CL	801.903	5	11.5 – 15
C	801.854	5	18 – 21
CL	801.904	5	18 – 21

Dressed with Cage Part No. 69693 will catch the following Guiberson Packers with 2.000 inch ID

Packer Type	Packer No.	Casing Size	Casing Weight (lbs)
BL	29567	5	15-18

Bowen Simplex Packer Retriever Assembly Part No. 69040

Dressed with Cage Part No. 69043 — Standard Catch Size 2.375 Inches ID

Dressed with Cage Part No. 69702 will catch the following Baker Packers with 2.468 inch ID

Packer Type	Packer No.	Casing Size	Casing Weight (lbs)
D	43-24	5-1/2	20 – 23
D	45-24	5-3/4	25.2
		5-1/2	15 – 17
D	27-24	5-1/2	13 – 14
		5-3/4	19.5 – 22.5
D	49-24	5-3/4	14 – 17
		6	23 – 26

Dressed with Cage Part No. 69703 will catch the following Baker Packers with 2.500 inch ID

Packer Type	Packer No.	Casing Size	Casing Weight (lbs)
D	27-25	5	15 – 18
D	29-25	5	11.5 – 13
		5-1/2	25

Dressed with Cage Part No. 69705 will catch the following Baker Packers with 2.688 inch ID

Packer Type	Packer No.	Casing Size	Casing Weight (lbs)
DA	43DA-32	5-1/2	20 – 23
D	43-26	5-1/2	20 – 23
DA	45DA-32	5-1/2	15 – 17
		5-3/4	25.2
D	45-26	5-1/2	15 – 17
		5-3/4	25.2
DA	47DA-32	5-1/2	13 – 14
		5-3/4	19.5 – 22.5
D	47-26	5-1/2	13 – 14
		5-3/4	19.5 – 22.5
DA	49DA-32	5-3/4	14 – 17
		6	14 – 17
D	49-26	5-3/4	14 – 17
		6	23 – 26
D	83-26	6-5/8	20 – 24
		7	32 – 38
D	85-26	6-5/8	17
		7	26 – 30
D	87-26	7	20 – 24
		7-5/8	45
D	89-26	7	17
D or N		7-5/8	39
D or N	91-25	7-5/8	24 – 33.7

Dressed with Cage Part No. 69706 will catch the following Halliburton Packers with 2.750 inch ID

Packer Type	Packer No.	Casing Size	Casing Weight (lbs)
C	801.857	5-1/2	13 – 17
		5-3/4	22.5
CL	801.907	5-1/2	13 – 17
		5-3/4	22.5
C	801.858	5-1/2	20 – 23
CL	801.908	5-1/2	20 – 23
C	801.859	5-3/4	14 – 19.5
		6	23
CL	801.909	5-3/4	14 – 19.5
		6	23
C	801.860	6	15 – 20
CL	801.910	6	15 – 20

Dressed with Cage Part No. 69707 will catch the following Guiberson Packers with 2.812 inch ID

Packer Type	Packer No.	Casing Size	Casing Weight (lbs)
B & BL	27735	5-1/2	13 – 14
B & BL	27274	5-1/2	15 – 17
B & BL	27279	5-1/2	20 – 23
B & BL	28280	6	16 – 20
B & BL	31481	6-5/8	24 – 28

Dressed with Cage Part No. 69708 will catch the following Baker Packers with 3.000 inch ID

Packer Type	Packer No.	Casing Size	Casing Weight (lbs)
D	63-30	6	16 – 20
D	65-30	6	14 – 15
		6-5/8	32 – 24
D	67-30	6-5/8	26 – 49
		7	40

Bowen Simplex Packer Retriever Assembly Part No. 69045

Dressed with Cage Part No. 69048 — Standard Catch Size 2.688 Inches ID

Dressed with Cage Part No. 69712 will catch the following Baker Packers with 3.250 inch ID

Packer Type	Packer No.	Casing Size	Casing Weight (lbs)
DA	83DA-40	6-5/8	20 – 24
		7	32 – 38
D	83-32	6-5/8	20 – 24
		7	32 – 38
DA	85DA-40	6-5/8	17
		7	26 – 30
D	85-32	6-5/8	17
		7	26 – 30
DA	87DA-40	7	20 – 24
		7-5/8	45
D	87-32	7	20 – 24
		7-5/8	45
DA	89DA-40	7	17
		7-5/8	36 – 39
D	89-32	7	17
		7-5/8	36 – 39
DA	91DA-40	7-5/8	24 – 33.7
D or N	91-32	7-5/8	24 – 33.7
D	195-32	9-5/8	40 – 53.5

Dressed with Cage Part No. 69712 will catch the following Halliburton Packers with 3.250 inch ID

Packer Type	Packer No.	Casing Size	Casing Weight (lbs)
C	801.861	6-5/8	24 – 32
		7	34 – 40
CL	801.911	6-5/8	24 – 32
		7	34 – 40

Bowen Simplex Packer Retriever Assembly Part No. 69050

Dressed with Cage Part No. 69053 — Standard Catch Size 3.250 Inches ID

Dressed with Cage Part No. 69715 will catch the following Baker Packers with 3.875 inch ID

Packer Type	Packer No.	Casing Size	Casing Weight (lbs)
D or N	127-38	8-5/8	40 – 49
D or N	129-38	8-5/8	24 – 36
D		9	40 – 55

Dressed with Cage Part No. 69713 will catch the following Halliburton Packers with 3.500 inch ID

Packer Type	Packer No.	Casing Size	Casing Weight (lbs)
C	801.862	7	17 – 24
		7-5/8	39
CL	801.912	7	17 – 24
		7-5/8	39
C	801.863	7	26 – 32
		6-5/8	17 – 22
CL	801.913	7	26 – 32
		6-5/8	17 – 22
C	801.865	7-5/8	20 – 33
CL	801.915	7-5/8	20 – 33

Dressed with Cage Part No. 69713 will catch the following Guiberson Packers with 3.500 inch ID

Packer Type	Packer No.	Casing Size	Casing Weight (lbs)
B and BL	27299	7	20 – 24
B and BL	27314	7	26 – 30
B and BL	27440	7	32 – 38
B and BL	31550	7-5/8	24 – 33.7

Dressed with Cage Part No. 69082 will catch the following Baker Packers with 4.000 inch ID

Packer Type	Packer No.	Casing Size	Casing Weight (lbs)
C	801.869	8-5/8	24 – 36
		9	45 – 55
CL	801.919	8-5/8	24 – 36
		9	45 – 55
C	801.871	8-5/8	38 – 49
CL	801.921	8-5/8	38 – 49

Bowen Simplex Packer Retriever Assembly Part No. 69055

Dressed with Cage Part No. 69058 — Standard Catch Size 3.875 Inches ID

Dressed with Cage Part No. 69719 will catch the following Baker Packers with 4.750 inch ID

Packer Type	Packer No.	Casing Size	Casing Weight (lbs)
DA	195DA-60	9-5/8	40-53.5
D	195-47	9-5/8	40-53.5

Dressed with Cage Part No. 69083 will catch the following Baker Packers with 5.000 inch ID

Packer Type	Packer No.	Casing Size	Casing Weight (lbs)
C	801.874	9-5/8	29.3-40
CL	801.924	9-5/8	29.3-40
C	801.875	9-5/8	43.5-53.5
CL	801.925	9-5/8	43.5-53.5

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* Denotes Manufacturing and Engineering facilities

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